

CITY OF SCOTTSDALE  
PLANNING AND DEVELOPMENT SERVICES

**INTERPRETATIONS & APPLICATIONS  
OF BUILDING CODES & REGULATIONS #98-3**



CODE SECTION : NEC Section 220-3, **(b)**

Orig. 02/10/98, Rev. 03/08/02

**SUBJECT : Section 220-3, **(b)**- BRANCH CIRCUIT LOAD REQUIREMENTS**

FOR THE PURPOSES OF PLANS CALCULATIONS AND INSTALLATION REQUIREMENTS, THE FOLLOWING LOADS AND BRANCH CIRCUIT REQUIREMENTS MAY BE USED WHERE THE ACTUAL NAMEPLATE RATING IS NOT AVAILABLE.

	LOAD	CONDUCTOR AMPACITY	SINGLE PHASE NOMINAL VOLTAGE
ELECTRIC CLOTHES DRYER	5,000 VA	30 AMPERE	120/240V
WATER HEATER	4,500 VA	30 AMPERE	240V
DISHWASHER	1,500 VA	20 AMPERE	120V
GARBAGE DISPOSAL	720 VA	20 AMPERE	120V
DISHWASHER/DISPOSAL (COMMON CIRCUIT)	1,500 VA	20 AMPERE	120V
EVAPORATIVE COOLER	1,200 VA	20 AMPERE	120V
COMPACTOR	1,500 VA	20 AMPERE	120V
WALL MOUNTED OVEN OR COUNTER MOUNTED COOKING UNITS	6,000 VA	30 AMPERE	120/240V
RANGE	12,000 VA	50 AMPERE	120/240V
GAS FIRED CLOTHES DRYER	1,500 VA	20 AMPERE	120V
CLOTHES WASHER	1,500 VA	20 AMPERE	120V
MICROWAVE OVENS (FIXED)	1,200 VA	20 AMPERE	120V

"NOTE: THE ABOVE CALCULATIONS ARE WITHOUT APPROPRIATE NEC DEMANDS, WHICH MAY BE TAKEN WHERE PERMITTED IN THE NEC.

"IF APPLIANCES ARE INSTALLED HAVING HIGHER NAMEPLATE RATINGS THAN THE MINIMUM LOADS SPECIFIED ABOVE, THE CONDUCTORS SHALL BE INCREASED TO THE PROPER SIZE. WHERE LIMITED STORAGE CAPACITY WATER HEATERS ARE SPECIFIED, THE NAMEPLATE RATING OF THE UNIT(S) SHALL BE USED.